



Tedlar® SP

polyvinyl fluoride film

Materials and Processing Information Safety Considerations

General

Laboratory studies by DuPont and experience by DuPont and processors have shown that *Tedlar*® PVF film, itself, presents no health hazards.

Converting or Processing

Use appropriate industrial hygiene practices when handling *Tedlar*® SP PVF film. *Tedlar*® SP is not hazardous as shipped. Use local exhaust to remove vapors and fumes liberated during hot processing from the work area.

Wear safety eyewear when handling material.

Wash thoroughly after handling and before eating or smoking. Exposure to the thermal decomposition products of the polymer through the smoking of tobacco or cigarettes that have been contaminated with polymer fragments or dust can create influenza-like symptoms (polymer fume fever). The symptoms do not ordinarily occur until several hours after exposure and pass within 24 to 48 hours.

Thermal Stability

The film has been processed routinely at temperatures near and above 204°C (400°F), and for short times as high as 232°–249°C (450°–480°F), using ordinary industrial work area ventilation. At temperatures above 204°C (400°F) or upon prolonged heating, film discoloration and evolution of small amounts of hydrogen fluoride vapor will occur. An example of where this is likely to occur is when using *Tedlar*® as a release film in high temperature

curing operations. The time-weighted average concentration of hydrogen fluoride should not exceed 3 ppm vapor in air by volume, as prescribed by OSHA regulations (29 CFR 1910.1000). Vegetation is particularly sensitive to damage by hydrogen fluoride, and attention must be given to the location of exhaust vents or stacks.

Additives

Some formulations* contain, as pigments and additives, small amounts of one or more compounds of lead, chromium, and antimony. Secondary operations such as routing, sanding, or sawing can form dust particles of PVF that contain these pigments and additives. Precautions should be taken not to inhale, swallow, or contaminate smoking materials with these dust particles. Workers should be required to wash thoroughly before eating.

Finished Products

Either as an exterior or interior finish, *Tedlar*® will not contribute significantly to the danger associated with fire in a residential or industrial structure. The combustion of construction materials and furnishings will typically produce carbon monoxide, as well as an oxygen deficient atmosphere. These constitute a greater potential hazard than the gases generated from *Tedlar*® finished products.

* TFY10A(H,M)(8,9), TFO10A(H,M)(8,9), TFG10A(H,M)(8,9), TFB10A(H,M)(8,9), TFN10A(H,M)(8,9), TFN10A(H,M)(8,9), TFV10A(H,M)(8,9), TFV10A(H,M)(8,9), TFP10A(H,M)(8,9), TFC10A(H,M)(8,9), TFR10A(H,M)(8,9)

Films Accepted by FDA and USDA

Unpigmented types of *Tedlar*® PVF film may be used as components of food-contact coatings in compliance with FDA regulation 21 CFR 175.270. USDA requires the use of FDA-compliant materials for use in contact with foods prepared under federal inspection by USDA. *Tedlar* types which are compliant include:

TTR5JA(M,H)(8,9)

TTR10A(H,M)(8,9)

Other types should **not** be used for food contact, USDA applications, the surfaces of children's furniture and toys, or other applications where the

ingredients of the film may get into the digestive system, either directly or indirectly.

Storage

Tedlar® does not readily burn or support combustion. Nevertheless, standard fire prevention and control practices should be observed, and large stocks should not be stored with flammable material.

Waste Disposal

It is preferable to dispose of *Tedlar*® as landfill; if burned, corrosive hydrogen fluoride fumes will be liberated which may injure vegetation and may be harmful to humans.

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Note: We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not license to operate under, or intended to suggest infringement, of any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102.



Tedlar®
Only by DuPont